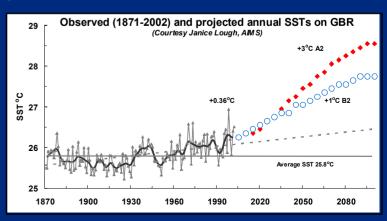
Solutions? **Key challenges**

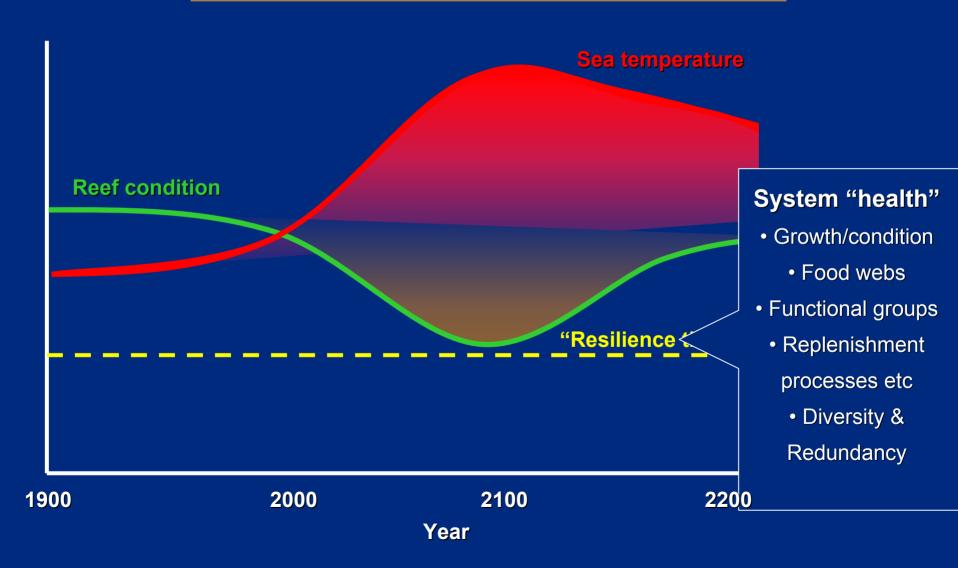
- Unprecedented spatial scale
 - affects entire ecosystems
- Stochastic (not self-limiting)
 - disturbance return intervals do not match recovery
- Episodic & threshold effects
- Impacts are persistent & cumulative
 - potentially catastrophic but certainly chronic
- Additive/synergistic effects with existing pressures
- Skepticism Acceptance Action

The need for action

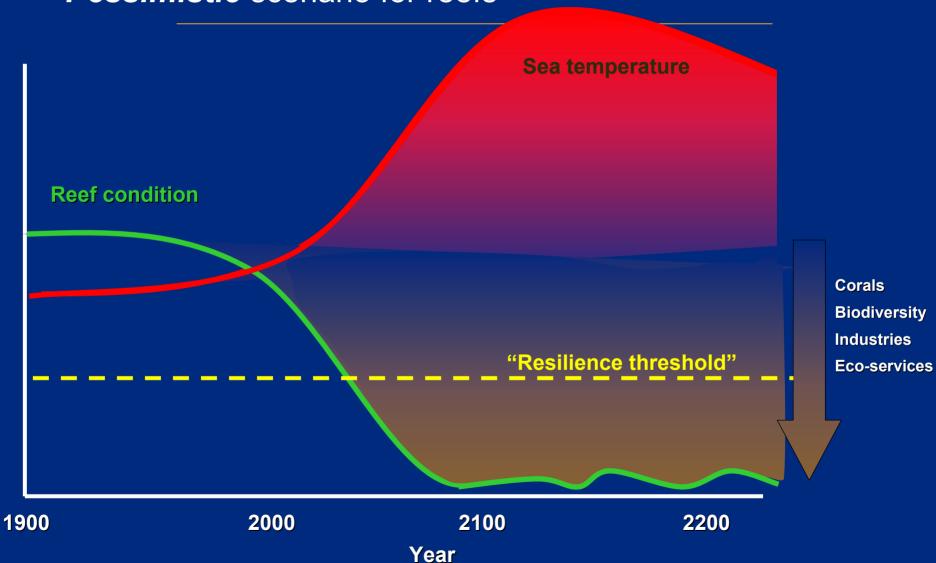
- Further warming unavoidable
- Future bleaching events almost certain
- Reef condition will continue to decline
- Severity and reversibility of damage will be determined by:
 - Rate and extent of warming
 - Resilience of reef ecosystem



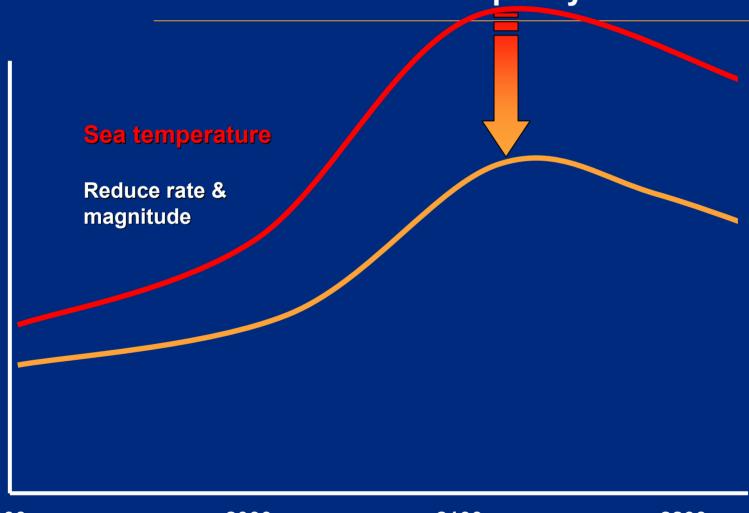
Optimistic scenario for reefs



Pessimistic scenario for reefs



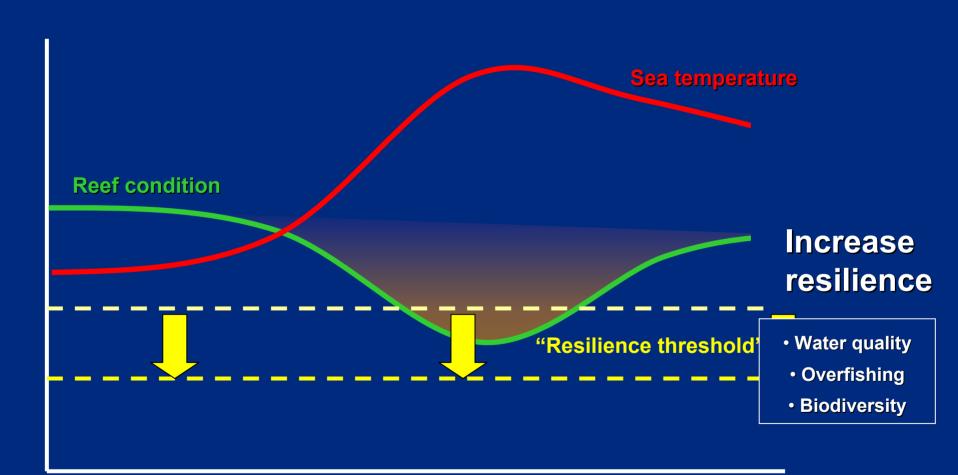
Inform national/international policy



1900 2000 2100 2200

Year

Solutions Reduce local stresses



Solutions Goals & objectives

- Goal: Increase chance of reefs surviving future warming
- Objectives
 - Reduce rate & extent of global warming
 - Prevent irreversible damage
 - Increase chances of adaptation
 - Support resilience of reef ecosystem
 - Maintain healthy functioning
 - Reduce other pressures

A framework for action

- 1. Assess risk and predict bleaching
- 2. Short term response
- 3. Long term response
- 4. Communication
- 5. Restoration?
- 6. Local Action Strategies
- 7. Fill gaps & build capacity

